

The Release of the New ETSI Wi-Fi 5GHz Standard EN 301 893 V2.2.1: A Gateway to the Wi-Fi 7 Era!

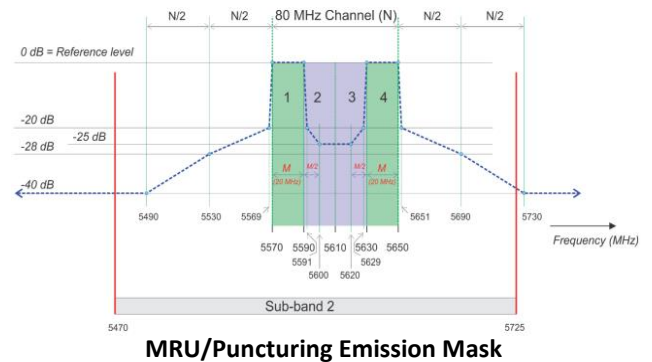
ETSI released its latest version standard EN 301 893 V2.2.1 for the 5GHz bands on November 28, 2024, The standard incorporates Wi-Fi 7 MRU/Puncturing technology, establishes new test requirements, and extends the original 5725 MHz frequency range to 5850 MHz.

Harmonized date /citation in OJ : [February 28, 2025](#).

The following are the main changes:

1. The 5GHz original two sub-bands were divided into three sub-bands.
2. Added new sub-band 4 (5725~5850 MHz) and test requirements.
3. Added new channel for straddle band use (5720 MHz, 5710 MHz, 5690 MHz).
4. Modify Adaptivity “Energy Detection Threshold (ED) “and “sampling gap time”.
5. Added MRU/Puncturing Emission Mask requirements.
6. Added Adjacent Channel Selectivity test requirements.
7. Added “Country determination capability” for sub-band 4.

Band	Frequency(MHz)	EIRP/PSD Limit	
		With TPC	Without TPC
Sub-band 1	5150-5250	23 dBm / 10 dBm/MHz	
Sub-band 2	5250-5350	23 dBm / 10 dBm/MHz	20 dBm / 7 dBm/MHz
Sub-band 3	5470-5725	30 dBm / 17 dBm/MHz	27 dBm / 14 dBm/MHz
Sub-Band 4	5725-5850	23 dBm / 10 dBm/MHz	20 dBm / 7 dBm/MHz



The standard publication means that the certification and application of sub-band 4(5725 -5850 MHz) have been opened in ETSI.

The standard links:

etsi.org/deliver/etsi_en/301800_301899/301893/02.02.01_60/en_301893v020201p.pdf

If you are interested in this aspect, please feel free to contact VP Leo Huang.

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